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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,835	01/20/2004	Jong-Kon Choi	9903-086	4066
20575	7590 12/14/2004		EXAM	INER
	OHNSON & MCCOL	MITCHELL	, JAMES M	
1030 SW MORRISON STREET PORTLAND, OR 97205			ART UNIT	PAPER NUMBER
	,		2813	

DATE MAILED: 12/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan.	10/761,835	CHOI, JONG-KON				
Office Action Summary	Examiner	Art Unit				
	James M. Mitchell	2813				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 20 Ja	anuary 2004.					
						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
5) Claim(s) is/are allowed.	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
· _						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ acce	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority 	s have been received. s have been received in Applicati ity documents have been receiv	tion No				
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		•				
Attachment(s)	0 1 0					
1) Notice of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)				
2)	Paper No(s)/Mail D 5) Notice of Informal I	Pate Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	,				

Art Unit: 2813

DETAILED ACTION

This office action is in response to the application filed January 20, 2004.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 1 rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The metallic layer formed on the backsurface of the chip with an adhesive between the metallic layer and base is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). The features are critical because applicant original disclosure page 4 and 7 indicates that it is needed in order to achieve the objects of the invention and to firmly attach the chip to the base.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and are rejected under 35 U.S.C. 102(b) as being anticipated by Alfaro et al. (U.S. 10/761,835)

Alfaro (Fig 2) discloses a digital micro-mirror device IDMD) packages, comprising: a base substrate (42) having a top (portion contacting item 34) surface and

Art Unit: 2813

a bottom surface (i.e. lower portion of 42); a metallic layer (34) formed on the top surface of the base substrate (i.e. portion closest to item 14), a metallic adhesive (50) formed on the metallic layer; a semiconductor chip (24) mounted on the metallic adhesive, the base substrate electrically connected with the semiconductor chip (i.e. leads, 14); one or more mirrors mounted on the semiconductor chip (Col.3, Lines 4-7; dmd) a hermetic sealing means (30) covering the semiconductor chip including the one more mirror on the chip; (cl. 2) that further comprises a heat sink attached integral with the metallic layer on the bottom surface of the base substrate (i.e. lower portion 42).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Mitchell whose telephone number is (571) 272-1931. The examiner can normally be reached on M-F 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2813

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jmm_

November/2/1, 2004

CARL WHITEHEAD, JR.

SUPERMSORY PATENT EXAMINER
TECHNOLOGY CENTER 2800 /